

Page 1

January-21-13 9:51:41 AM Accept *N900040100* Item ID: D4034-1 Setup Start **Revision ID:** Rib Item Name: 1/16/13 Start Qty: 3.00 **Start Date:** Cust Item ID: Req'd Qty: 3.00 Required Date: 1/30/13 **Customer:** Reference: Start Process Plan: MC5 Date: 13-01-23 Tooling: Date: Approvals: Stop Date: SPC (Y/N): Date: Reject Reject Set Up/ Tool ID Tool # Plan Insp. Sequence ID/ **Operation** Accept Qty Qty Number Stamp Code **Work Center ID** Description **Run Hours Draw Nbr Revision Nbr** D4034 В 100 0.00 X20 13-03-19 MAL *100* 0.00 Large Fab Memo 1- Cut tube as per dwg D4034 Large Fab QC6- Inspect dimensions to drawing 0.00 110 20x Sy 13.03.19 *110* OC 0.00 Memo Quality Control Identify as per dwg & Stock Location: 0.00 120 DOX SS 13.03.19 *120* 0.00 Packaging Memo Packaging

| NCR: | Yes | / No | | | | WORK ORDER NON-O | COI | VFORM | MANCE / UP | DATE | | - | D | | |
|---|-----|---------|-----------|----------|----------|---|-----|-----------------|--|--|----|---|---|-----|---|
| | | | | | | T | | | | | | QA Closed: | Dat | te: | |
| Work Ord | or: | | | | | DISPOSITION | | | | AGAINST | DE | PARTMENT/ | PROCESS | | |
| Part NCR | Ño. | | | | | Rework Scrap Use-as-is Work Order Update | | Therm | Skid-tube Machining noforming Large Fab | Crosstube Small Fab Finishing Composite | | 1 | Water Jet d. Eng. Coor. e/Packaging Supplier | | Engineering Quality Other |
| Root | | | | | Descri | ption of work order update | | Initial | Ac | tion | | Sign & | | | |
| Cause | | Date | Step | Qty | (| or Non-conformance | Cr | nief Eng | Desc | ription | | Date | Verificatio | n | QC Inspector |
| Doc/Data Equip/Tooling Operator Material Setup Other Process Supplier | | | | | | | | | | | | | | | |
| Training | | | | | | | | | | | | | | | |
| Unapproved | | | 1 | <u> </u> | <u> </u> | _ | | T 64T | | | | | | | |
| | | | | | | | AUI | T CATE | GORY | | | | | | |
| Land | | Bending | ot Concer | ntric to | o/s | General Bend BOM/Route Broken/Damaged | | Grain Hardwa | re on Incomplete | | | Ovalized Over/Under Part Incorred | | | Pressure/Forced Temperature/Cure Weld |

Instructions Incomplete/Unclear

Maintenance

Out of Calibration

Out of Sequence

Outside Dimensions

Mislabeled

Misread

Offset

DQA:

Part Lost/Missing

Positioned Wrong

Power Loss/Surge

Part Moved

Wrong Stock Pulled

Other

Date:

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Turning Sequence

Wave/Twist in Tube

Ripples in Bend

Crushed/Crimped.

Inspection Strip in Tube

Torque Waves in Extrusion

Cuffs

Heat Treat

Burrs

Contamination

Countersink

Cut Too Short

Drill Holes

Drawing

Finish

Folio

| Work Orde | | | | *950 | | | | | | | | Page 2 |
|---|--------------------|--|--------------------|----------------------|------------------------|------------|--------------|---------------|----------|---------------|------------------|----------------|
| Item ID: Revision ID: Item Name: | D4034-1 | | | Accept | *N9000 | າ40 | 100 |)* 5 | Setup | Start Stop | ' | S1* S2* |
| Start Date: Required Date: Reference: | 1/16/13 1/30/13 | Start Qty: 3.00 Req'd Qty: 3.00 | *3* *3* | | Cust Item ID Customer: |) : | į | | | | | |
| Approvals: | Process Pl | lan: | Date: | Tooling: SPC (Y/N): | Dat | | | į | Run | Start Stop | *N *N | R1* R2* |
| Sequence ID/ Work Center II | D | Operation Description OC21- Final Inspection | Wark Order Palesco | Set Up/ Run Hours | Tool ID | Tool # | Plan Code | Accept Qty | Re Qt | • | Reject Number | Insp. Stamp |

0.00

Memo

Quality Control

1603-10

| DQA: | Date: | |
|------|-------|--|
|------|-------|--|

NCR: \

Yes / No

WORK ORDER NON-CONFORMANCE / UPDATE

| | | | | | WORK ONDER NOW | | <i>\</i> | | QA Closed: | Date | |
|--|-------------------------|-------------|------------|--------|-------------------------------|--------------|--------------------------------|-------------------------------|--|--------------------------------------|---------------------------------------|
| Work Orde | r. | | | • | DISPOSITION | | | AGAINST DE | PARTMENT | /PROCESS | |
| Part N | | | | | Rework Scrap Use-as-is | 1 1 | Skid-tube Machining noforming | Crosstube Small Fab Finishing | 1 | Water Jet d. Eng. Coor. re/Packaging | Engineering Quality Other |
| NCR N | O | | | · | Work Order Update | | Large Fab | Composite | , nee, sto | Supplier | |
| Root | | | | Descri | ption of work order update | Initial | Ac | tion | Sign & | | |
| Cause | Date | Step | Qty | | or Non-conformance | Chief Eng | Desc | ription | Date | Verification | QC Inspector |
| quip/Tooling Operator Material etup Other rocess upplier raining | | | | | | | | | | | |
| Inapproved | | 1, | | | | | | | | | |
| | | | | | | AULT CATE | GORY | | | | |
| Landin | - | | | _ | General | | | | 1 | _ | · ¬ |
| | Bending Centre N Cracks | lot Conce | ntric to (| o/s | Bend BOM/Route Broken/Damaged | Grain Hardwa | ire ion Incomplete | | Ovalized Over/Under Part Incorre | | Pressure/Forced Temperature/Cure Weld |
| | Crushed | /Crimped | - | | Burrs | Instruct | ions Incomplete/ | 'Unclear | Part Lost/M | issing | Wrong Stock Pulled |
| | Cuffs | | | | Contamination | Mainte | enance | | Part Moved | | - |
| | Heat Tre | at | | | Countersink | Mislabe | eled | | Positioned \ | V rong | |
| | Inspecti | on Strip in | Tube | | Cut Too Short | Misread | t | | Power Loss/ | /Surge | Other |
| | Ripples | n Bend | | | Drill Holes | Offset | | | | | |
| · [| Torque | Waves in I | Extrusion | ı [| Drawing | Out of 0 | Calibration | | | | |
| | Turning | Sequence | | | Finish | Out of 9 | Sequence | | | | |
| | Wave/T | wist in Tul | oe o | Γ | Folio | Outside | Dimensions | | | | |

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January-21-13 9:51:41 AM

Work Order ID:

95920

Parent Item:

D4034-1

Parent Item Name:

Rib

Start Date: 1/16/13

Required Date: 1/30/13

Start Qty: 3.00

Required Qty: 3.00

Comments:

IPP RevA: new issue DD 09.11.23 verified by:EC

IPP Rev:B as per dwg revA 10.03.15

IPP

verified by:EC IPP Rev:C 11.01.18 chg qc5 to 6 DD verf:EC
Rev:D 11.01.19 AS PER DWG REV.B DD VERF:EC

| Component Item ID/ Item Name | Replacement Item ID | Mfg/ Purch | Bin Item | Primary Location | Last Location | Route Seq ID | Unit of Measure | Qty on Hand | Qty per Kit | Total Qty | Qty Issued | Date Issued | Status |
|---------------------------------|------------------------|---------------|-------------|---------------------|------------------|-----------------|--------------------|----------------|-------------|--------------|---------------|----------------|--------|
| M304TS0.750W.049 | | Purchased | No | | | 100 | f | 680.8946 | 0.3333 | 1.0525263 | | | |
| 304 SQ Tube .75x.75x.049 | 9W | | | | | | | | | | | | |
| | | | | Location | | Loc Qty | <u>Lo</u> | oc Code | | | | | |
| | | | | MAT017 | | 1.0156214 | | | | | | | |
| | | | | 1218 | 98 | 1.0156214 | | | | | | | |
| | | | | WA006 | | 679.8789859 | | | | | | | |
| | | | | 1222 | 201 | 0.1626 | | | | | | | |
| | | | | 1224 | 25 | 39.0000000 | | | | | | | |
| | | | | 1226 | 666 | 0.7293 | | | | | | | |
| | | • | | 1232 | 19 | 170.9741 | | | | | | | |
| | | | | 1234 | 184 | 469.012986 | -> 7.0 | 12 | | 13 | 03-1 | 9 1 | NA/ |

| | | | | | | | | | | | DO | QA: | Dat | te: | |
|---------------|---|-------------|------------|------------|----------|----------------------------|---------|----------|-------------------|------------|-----------|--------|---------------|----------|--------------------|
| NCR: | Yes | / No | | | | WORK ORDER NON- | CO | NFORM | MANCE / UP | DATE | | _ | | | |
| | | | | | | | | | | | QA Clos | ed: | Dat | te: | |
| Work Ord | or. | | | | | DISPOSITION | | ŧ | | AGAINST DE | PARTME | NT/ | PROCESS | | |
| Work Ord | ٠,٠, | | | | | Rework | ٦ | | Skid-tube | Crosstube | 1 | | Water Jet | \neg | Engineering |
| Part I | Vo. | | | | | Scrap | 1 | | Machining | Small Fab | 1 | Proc | d. Eng. Coor. | \dashv | Quality |
| | | | | | | Use-as-is | 1 1 | | noforming | Finishing | 4 | | e/Packaging | | Other |
| NCR | No. | | | | | Work Order Update | 1 | | Large Fab | Composite | | | Supplier | | |
| | | | | | | · | _ | _ | · | · • | | | | _ | |
| Root | | | | | Descri | ption of work order update | | nitial | Ac | tion | Sign 8 | Ž. | | | |
| Cause | | Date | Step | Qty | (| or Non-conformance | Ch | ief Eng | Desc | ription | Date | | Verification | <u>n</u> | QC Inspector |
| Doc/Data | | | 1 | | | | | | | | | | | | |
| Equip/Tooling | | | | | | | | | | | | | | | |
| Operator | | | | | | | | | | | | | | } | |
| Material | | | | | | | | | | | | | | | |
| Setup | | | | | | | | | | | | - 1 | | | |
| Other | | | | | | | | | | | | | | | |
| Process | \Box | | | | | | | | | | | İ | | | |
| Supplier | | | | | | | | | | | | | | | |
| Training | | | | | | | | | | | | | | | |
| Unapproved | | | | | | | 1 | | | <u> </u> | | | | | |
| | | | | | | F | AUL | T CATE | GORY | | | | | | |
| Landi | ng (| | | | | General | | , | | _ | _ | | | _ | 1 |
| | | Bending | | | <u> </u> | Bend | L | Grain | | | Ovalized | l | | | Pressure/Forced |
| | $ldsymbol{ld}}}}}}$ | Centre No | ot Concer | ntric to (| o/s | BOM/Route | | Hardwa | re | | Over/Ur | ider : | tolerance | | Temperature/Cure |
| | $ldsymbol{le}}}}}}$ | Cracks | | | | Broken/Damaged | \perp | Inspecti | on Incomplete | <u> </u> | Part Inco | orrec | :t | | Weld |
| | | Crushed/ | Crimped. | | | Burrs | | Instruct | ions Incomplete/ | Unclear | Part Los | t/Mi | ssing | | Wrong Stock Pulled |
| | | Cuffs | | | <u> </u> | Contamination | | Mainte | nance | | Part Mo | ved | | | |
| | | Heat Trea | it | | | Countersink | | Mislabe | led | | Position | ed W | /rong | | |
| | | Inspectio | n Strip in | Tube | | Cut Too Short | | Misread | 1 | | Power L | oss/S | Surge | | Other |

Offset

Out of Calibration

Out of Sequence

Outside Dimensions

Turning Sequence

Wave/Twist in Tube

Ripples in Bend

Torque Waves in Extrusion

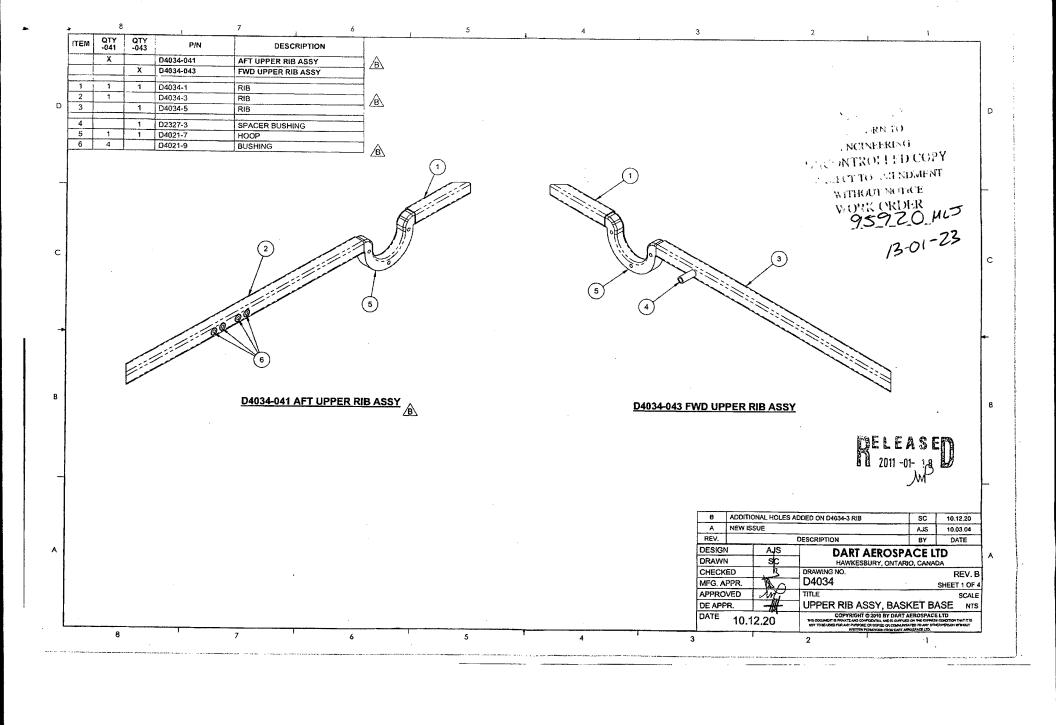
Drill Holes

Drawing

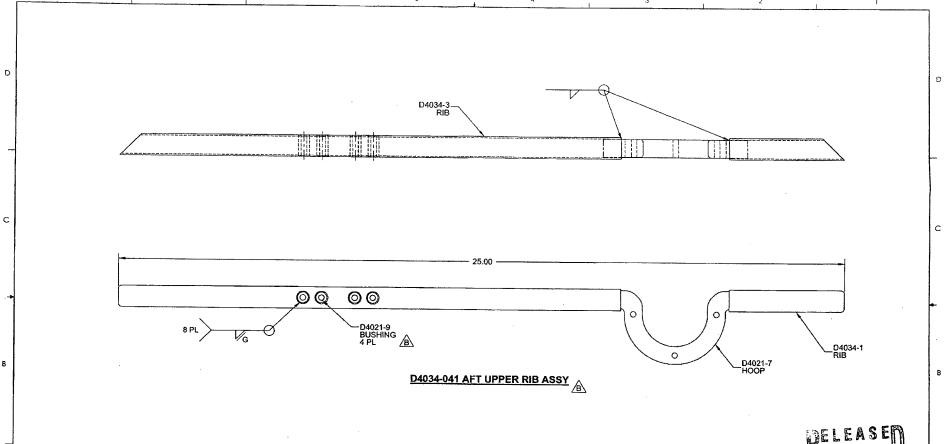
Finish

Folio

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| NOTES: 1) MATERIAL: N/A |
|--|
| 2) FINISH: NONE 3) TOLERANCES: PER DART QSI 018 UNLESS OTHERWISE NOTED 4) UNITS: INCHES UNLESS OTHERWISE NOTED |
| 5) BREAK SHARP EDGES: 0.005 TO 0.010 MAX 8) IDENTIFICATION: N/A |
| 7) WEIGHT: 1.61 lbs 8) WELD PER DART QSI 004 |

| DESIGN | AJS | DART AEROSPACE LTD | | | | | | | | |
|------------|-------|---|--|--|--|--|--|--|--|--|
| DRAWN | sc | HAWKESBURY, ONTARIO, CANADA | | | | | | | | |
| CHECKED | 13 | DRAWING NO. REV. I | | | | | | | | |
| MFG. APPR. | A | D4034 SHEET 2 OF | | | | | | | | |
| APPROVED | VAD, | TITLE SCALE | | | | | | | | |
| DE APPR. | -# | UPPER RIB ASSY, BASKET BASE NTS | | | | | | | | |
| DATE 10. | 12.20 | COPYRIGHT 6: 2010 BY DART AEROSPACE LTD THIS DOCUMENT IS PRIVATE AND COMP EDITION. AND IS SUPPLIED ON THE EXPRESS CONDITION THAT IT IS HOT TO BE USED FOR ANY PURPOSES OF COMPLICATION THAT OF THESE PERSONNETH DUT WHITTEN PRIVATED ON THE DESTRUCTION OF THE PERSONNETH DUT WHITTEN PRIVATED ON THE DESTRUCTION OF THE PERSONNETH DUT WHITTEN PRIVATED ON THE DESTRUCTION OF THE PERSONNETH DUT WHITTEN PRIVATED ON THE DESTRUCTION OF THE PERSONNETH DUT WHITTEN PRIVATED ON THE PERSONNETH | | | | | | | | |

